

Plenco 50240 PET, Pellet, Injection Molded, Blue (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

PLENCO 50240 is an engineering grade glass reinforced UL flame rated polyethylene terephthalate resin designed for excellent dimensional stability. It is UL listed and available in natural and black. Information supplied by PlencoPlenco discontinued their PET product line in 2005.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-50240-PET-Pellet-Injection-Molded-Blue-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.79 g/cc	0.0647 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	122.2 MPa	17720 psi	ASTM D638
Elongation at Break	1.68 %	1.68 %	ASTM D638
Tensile Modulus	12.53 GPa	1817 ksi	ASTM D638
Flexural Yield Strength	178.1 MPa	25830 psi	ASTM D790
Flexural Modulus	11.11 GPa	1611 ksi	ASTM D790
Compressive Yield Strength	154.9 MPa	22470 psi	ASTM D695
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	227 °C	441 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.10e+16 ohm-cm	1.10e+16 ohm-cm	ASTM D257
Dielectric Constant	3.7 @Frequency 1e+6 Hz	3.7 @Frequency 1e+6 Hz	ASTM D150

Dielectric Strength Electrical Properties	15.5 kV/mm Metric	394 kV/in English	Short Time: ASTM D149 Comments
Dissipation Factor	0.013 @Frequency 1e+6 Hz	0.013 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	40 sec	40 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	ASTM D3638

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